

WHAT IS CLAIMED IS:

1. A laminate for producing a paper package comprising: a paper substrate; and a five layer coextrusion coated onto the substrate, the five layer coextrusion comprising: a first layer of low density polyethylene, a first adhesive tie layer, a blend barrier layer made from ethylene vinyl alcohol copolymer and a polyolefin, a second adhesive tie layer, a second layer of low density polyethylene; wherein the blend barrier layer comprises 35%-95% ethylene vinyl alcohol copolymer.
2. The laminate for producing a paper package in accordance with claim 1, further comprising a polyolefin layer coated onto an uncoated side of the paper substrate.
3. The laminate for producing a paper package in accordance with claim 1, wherein the ethylene vinyl alcohol copolymer has an ethylene content ranging from 29-50%.
4. The laminate for producing a paper package in accordance with claim 1, wherein the ethylene vinyl alcohol copolymer has an ethylene content of 44%.
5. The laminate for producing a paper package in accordance with claim 1, wherein the polyolefin of the blend barrier layer is low density polyethylene, linear low density polyethylene or polypropylene.
6. The laminate for producing a paper package in accordance with claim 1, wherein the first and second adhesive tie layer is a modified polyethylene or modified polypropylene.
7. The laminate for producing a paper package in accordance with claim 1, wherein the substrate is paperboard.

8. The laminate for producing a paper package in accordance with claim 1, further comprising a layer of linear low density polyethylene and a layer of low density polyethylene applied between the five layer coextrusion and the substrate.

9. The laminate for producing a paper package in accordance with claim 2, wherein the blend barrier layer comprises 50% ethyl vinyl alcohol copolymer with an ethylene content of 44 mole % and 50% low density polyethylene.

10. A package produced from a laminate comprising: a paper substrate; and a five layer coextrusion coated onto the substrate, the five layer coextrusion comprising: a first layer of low density polyethylene, a first adhesive tie layer, a blend barrier layer made from ethylene vinyl alcohol copolymer and a polyolefin, a second adhesive tie layer, a second layer of low density polyethylene; wherein the blend barrier layer comprises 35%-95% ethylene vinyl alcohol copolymer.

11. The package produced from a laminate in accordance with claim 10, further comprising a polyolefin layer coated onto an uncoated side of the paper substrate.

12. The package produced from a laminate in accordance with claim 10, wherein the ethylene vinyl alcohol copolymer has an ethylene content ranging from 29-50%.

13. The package produced from a laminate in accordance with claim 10, wherein the ethylene vinyl alcohol copolymer has an ethylene content of 44%.

14. The package produced from a laminate in accordance with claim 10, wherein the polyolefin of the blend barrier layer is low density polyethylene, linear low density polyethylene or polypropylene.

15. The package produced from a laminate in accordance with claim 10, wherein the first and second adhesive tie layer is a modified polyethylene or modified polypropylene.

16. The package produced from a laminate in accordance with claim 10, wherein the substrate is paperboard.

17. The package produced from a laminate in accordance with claim 10, further comprising a layer of linear low density polyethylene and a layer of low density polyethylene applied between the five layer coextrusion and the substrate.

18. The package produced from a laminate in accordance with claim 11, wherein the blend barrier layer comprises 50% ethyl vinyl alcohol copolymer with an ethylene content of 44 mole % and 50% low density polyethylene.

Subject ~~19. (New) A laminate for producing a paper package comprising: a paper substrate; and a three layer coextrusion coated onto the substrate, the three layer coextrusion comprising a blend barrier layer made from ethylene vinyl alcohol copolymer and a polyolefin, an adhesive tie layer, and a layer of low density polyethylene; wherein the blend barrier layer comprises 35%-95% ethylene vinyl alcohol copolymer.~~

M ~~20. (New) The laminate as claimed in claim 19, further comprising an adhesive tie layer coated on the paper substrate between the substrate and the three layer coextrusion.~~

21. (New) The laminate for producing a paper package in accordance with claim 19, further comprising a polyolefin layer coated onto an uncoated side of the paper substrate.

22. (New) The laminate for producing a paper package in accordance with claim 19, wherein the ethylene vinyl alcohol copolymer has an ethylene content ranging from 29-50%.

23. (New) The laminate for producing a paper package in accordance with claim 19, wherein the polyolefin of the blend barrier layer is low density polyethylene, linear low density polyethylene or polypropylene.

~~SubC2~~ 24. (New) The laminate for producing a paper package in accordance with claim 19, wherein the first and second adhesive tie layer is a modified polyethylene or modified polypropylene.

25. (New) The laminate for producing a paper package in accordance with claim 19, wherein the blend barrier layer comprises 50% ethyl vinyl alcohol copolymer with an ethylene content of 44 mole % and 50% low density polyethylene.

~~SubC3~~ 26. (New) A package produced from a laminate comprising: a paper substrate; and a three layer coextrusion coated onto the substrate, the three layer coextrusion comprising a blend barrier layer made from ethylene vinyl alcohol copolymer and a polyolefin, an adhesive tie layer, and a layer of low density polyethylene; wherein the blend barrier layer comprises 35%-95% ethylene vinyl alcohol copolymer.

27. (New) The package produced from a laminate in accordance with claim 26, further comprising a polyolefin layer coated onto an uncoated side of the paper substrate.

28. (New) The package produced from a laminate in accordance with claim 26, wherein the ethylene vinyl alcohol copolymer has an ethylene content ranging from 29-50%.

29. (New) The package produced from a laminate in accordance with claim 26, wherein the polyolefin of the blend barrier layer is low density polyethylene, linear low density polyethylene or polypropylene.

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30. (New) The package produced from a laminate in accordance with claim 26, wherein the first and second adhesive tie layer is a modified polyethylene or modified polypropylene.

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31. (New) The package produced from a laminate in accordance with claim 26, wherein the blend barrier layer comprises 50% ethyl vinyl alcohol copolymer with an ethylene content of 44 mole % and 50% low density polyethylene.
